SEW-HBR144RTJ

Drum Washing Machine

user manual

SAMSUNG

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features of your new samsung washing machine

Your new washing machine will change the way you feel about doing laundry. From its super-size capacity to its energy efficiency, this Samsung washing machine has all the features to turn a mundane chore into a pleasure.

- **Air Wash**

  Eliminates odors even without dry-cleaning, as well as decreasing the need for dry-cleaning.
  - The Air Wash function eliminates odors and mites without using water.
  - Air Wash is an economical course reducing your time and cost.

- **From washing to drying, all-in-one**

  Not only can you select the drying time manually, but you can also choose to use the automatic function that detects the optimum drying conditions, providing a simple and convenient washing and drying experience.

Keeping the drum clean
When using the machine under humid conditions for an extended time, various airborne bacteria may enter the drum and form a black layer of dirt (fungi), that is harmful to the human body.
To keep the drum clean and hygienic at all times, it is recommended using a dedicated or recommended detergent to clean the drum regularly, at least once every one to three months.

This product has 1 year free warranty period from the date it was purchased. However; an extra fee may be charged depending on the service.
Please read the Product Warranty Statement carefully before using your washing machine.

WARNING The shipping bolts (used for delivery) on the back of the unit MUST be dismantled before use. Failing to dismantle the shipping bolts will result in serious damage to the unit as well as personal injury.
(Please refer to page 9 for more details.)

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safety information

Throughout this manual, you'll see Warning ⚠ and Caution ⚠ notes. These warnings, cautions, and the important safety instructions that follow do not cover all possible conditions and situations that may occur. It's your responsibility to use common sense, caution, and care when installing, maintaining, and operating your washing machine. Samsung is not liable for damages resulting from improper use.

IMPORTANT SAFETY SYMBOLS AND PRECAUTIONS

What the icons and signs in this user manual mean:

	This product uses 220V rated voltage.
WARNING	Hazards or unsafe practices that may result in **severe personal injury or death**.
CAUTION	Hazards or unsafe practices that may result in **minor personal injury or property damage**.
	Explains the details for more effective use of the machine.
	Unplug the power from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Explains technical terminology to help understand the use of product.
	Do NOT disassemble.
	Refer to the concerned page.

These warning signs are here to prevent injury to you and others.
Please follow them explicitly.
After reading this section, keep it in a safe place for future reference.

⚠ WARNING: Power and installation

WARNING

When the power cord, plug and the outlet are broken, please contact a service center instead of using the broken item.
- Failing to do so, may result in electric shock or fire.

Do NOT bend the power cord forcefully, or place heavy objects onto it. This may result in a product malfunction.
- Failing to do so, may result in electric shock or fire.

Ensure that the washing machine is properly grounded.
- There may be a risk of electric shock if the machine breaks down or leaks.
- The washing machine must be connected to an outlet with an earth terminal .
- Please ask your local Samsung Customer Service or refer to the User Manual for the proper grounding method.
  (Refer to page 10 "Grounding Method.")

Do not pull out the plug holding only the cable when unplugging the power cord, and do not touch the plug with wet hands. Do not use the power plug when it is loose.
- Failing to do so, may result in electric shock or fire.

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Ensure that your power supply offers 220V/15A or more power current.
- If the rated current or voltage is different, this may result in electric shock or fire.
- Do not use multiple products with one outlet.
- Never use an extension cord.
- Do NOT use unrated objects such as copper and wire.

Use a dry cloth if the contact points of power plug are dusty or exposed to water.
- Failing to do so, may result in electric shock or fire.

Do NOT install the washing machine close to a heating device and do NOT place candles or lit cigarettes on top of the washing machine.
- This may result in fire.

Do NOT transform to the current to 220V using an 110V electrical booster.
- This may result in electric shock or fire.

Do NOT install the washing machine in a location exposed to high humidity snow or rain, or on a carpet or inside a bathroom.
- May cause risk of electric shock and fire.

Besides of rated fuse, do NOT use non-rated objects such as copper and wire.
- - May cause risk of electric shock, fire and injury.

⚠ WARNING: Use

WARNING

Do NOT enter the room where the washing machine is located when water has leaked and is under the washing machine.
- Make sure that the power is off and that the water has been removed as this may result in electric shock.

Do NOT add gasoline, kerosene, benzene, thinner, denatured alcohol, or lighter into the product or leave them near the machine. Also, do not place laundry stained with these chemicals into the Drum.
- This may result in an explosion or fire.
- Do not use dry cleaning solvent directly and do not wash, rinse or spin clothing exposed to cleaning solvent.

Do NOT allow children to operate the washing machine or allow them to climb on top or get into the Drum.
- This may result in injury or even fatality.

Do NOT dismantle, repair or reconstruct the machine yourself. The washing machine may only be repaired by a service technician.
- This may result in a malfunction, electric shock, fire or injury.

Do NOT spray water onto all of the parts of the main body when cleaning the machine.
- This will reduce the life span of the washing machine and increase the risk of fire and electric shock.

Do NOT touch the water flowing out of the washing machine as it is very hot.
- This may cause injury.

Do NOT place your hands or any metal objects under the washing machine while the machine is running.
- This may cause injury.

Do not let children play near the washing machine and ensure that they do not place their hands inside the machine.
- This may cause injury.

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Do NOT open the door with excessive force as this may result in a malfunction.
- Opening the door with excessive force when it is closed may damage the door switch, the product, and cause injury.
- The door will not open when the washing machine is running (high temperature washing /drying).
- Opening the door with excessive force will result in damage to the product and possible injury.
- This may result in the water flowing out and burning your or you may slip on the water.

Before starting a wash, do NOT place laundry on top of the door.
- This may damage the door and cause a malfunction as well as possible injury.

CAUTION: Power and installation

Make sure to install the washing machine on a flat and solid floor.
- Unusual vibrations or noise may result in a malfunction.

Make sure to move or unpack the unit using at least two persons as the unit is heavy.
- Failing to do so, may result in damage to the product or injury.
- If the product falls onto its side, please contact Samsung Customer Service as this may result in a malfunction.

Install the washing machine in a convenient location so that plugging and unplugging the machine is easy. If the machine is not in use, you MUST unplug the power.
- This may result in electric shock or fire.

Do NOT place magnetic objects on top of the cover or next to the main body while the machine is running.
- The magnetic force could cause a malfunction of the cover open detection switch which may result in injury.

If the water supply hose is wet because it slipped out of the water tap, turn off the power and unplug the cord. If the washing machine is wet, it MUST be reported to the Samsung Customer Service.
- This may result in electric shock or fire.

To reconnect after the water supply has been cut off or if the water supply hose was dismantled, press the Power and Start/Pause buttons and open the water tap slowly. This also applies when the washing machine has not been used for a long time.
- Air may be trapped inside the water supply hose and water pipe, and this may damage the main body due to the compressed air pressure, resulting in a leak or injury.

CAUTION: Other uses

Do NOT operate the washing machine with wet hands.
- This may result in electric shock or fire

If the washing machine starts generating smoke, odors or unusual sounds, unplug the machine immediately and call a service center.
- This may result in electric shock or fire.

Do NOT operate the machine when the detergent drawer is removed.
- This may cause electric shock and injury if water leaks while the washing machine is operating.

Do NOT use products containing sponges or Styrofoam.
- This may result in fire.

Load the laundry carefully so that it does not get caught in the door.
- If laundry is caught in the door, the laundry may be damaged, and damage the product as well as result in leakage.

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Check whether the water drain is malfunctioning.
- Using the washing machine when it is soaked in water (due to a water drain defect), will result in a leakage, fire or electric shock.
- Take care, as the water is hot.

Do NOT wash water proof garments or sheets such as rain coats, vehicle covers and sleeping bags.
- If the washing machine is making unusual vibrations due to the laundry, it may result in injury.
- The wall, floor or garments may be damaged due to the irregular vibrations during the wash.

If the product is stained with detergent and dirt, use a soft wet cloth to wipe it off.
- Leaving stains and dirt may deform the product.

If the door is opened while drying or when laundry is removed after drying is finished, the window inside the door may be hot, and may cause burns (for Dryer models).
- Take care to not open or close the door too wide.

Make sure to close the water tap after washing is completed.
- If the screw is loose around the water supply hose connector, this may result in damage and injury.

Do not sit on or place articles on top of the washing machine.
- The articles may fall, and be damaged while the machine is running.

Do not put your hands inside while opening a detergent drawer.
- This may result in injury.

Do NOT place pet(s) inside the washing machine.
- This may result in injury or death.

Do NOT wash laundry stained with chemicals such as lotions, creams or oils used by skin therapists and massage parlors.
- The deformed packing will be a factor of dysfunction (leak).

Do NOT touch the washing machine or the power plug when gas is leaking. Ventilate immediately.
- Failing to do so may result in an explosion or fire.

Do NOT use an extension cord.
- Heat generation of dysfunction of an outlet will cause fire.
- If using an extension cord inevitably, be sure to an extension cord in single, with an earth terminal of more than 250V 15A certified by safety regulation.

Do NOT use the washing machine for any other purpose than washing laundry (such as Shoes, potatoes, cabbage, tangle weeds).
- Unusual vibrations from the main body will result in damage and injury.

Do NOT press the button using sharp objects, fingernails or pins.
- This may result in injury or electric shock.

A stainless drum is unlikely to rust. However; leaving metal objects (pins or hair pins) inside the drum for considerable amounts of time may result in rust.
- Do not leave chlorine such as water and bleach in the drum for a long period.
- Do not use water with too much iron for a long period.
  If you find rust, clean it with a sponge using a soft cleanser (mild detergent).
  Do not use metal type sponges.

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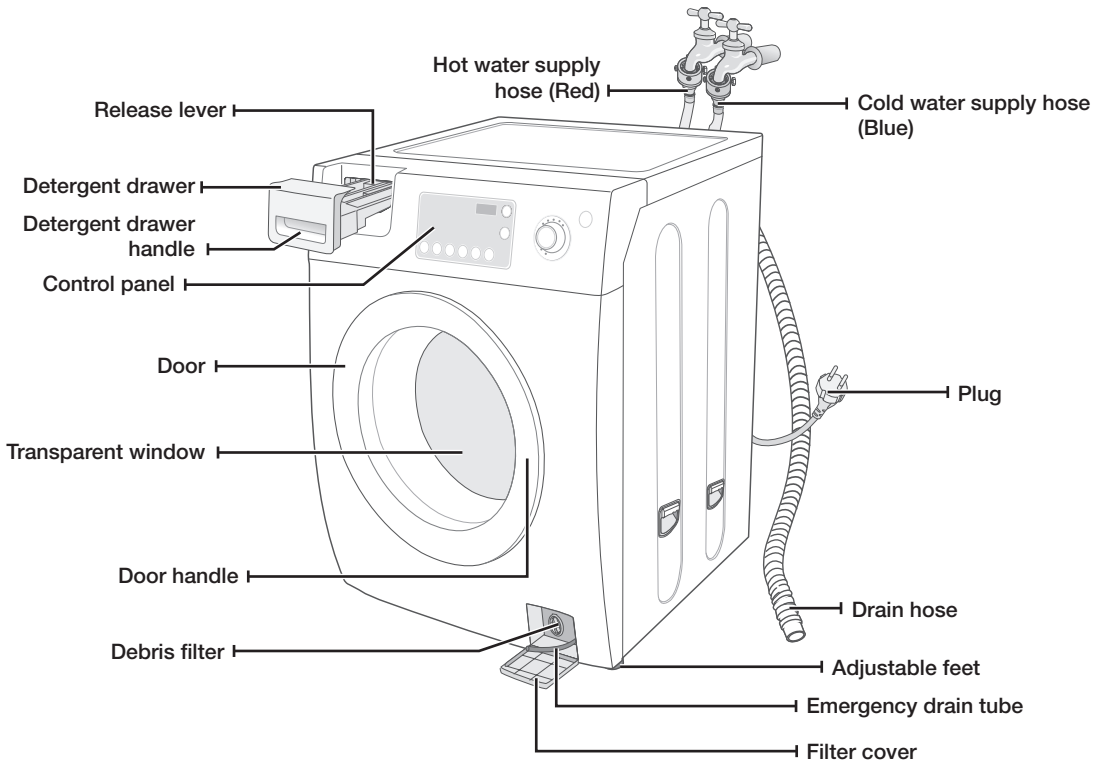
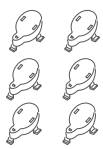
setting up your washing machine

CHECKING THE PARTS

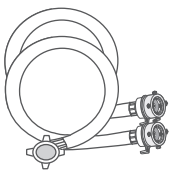
Carefully unpack your washing machine, and make sure you've received all of the parts shown below. If your washing machine was damaged during shipping, or if you do not have all of the parts, contact Samsung Customer Service.



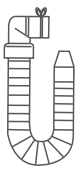
Spanner (except for built-in models)



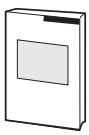
Bolt hole covers



Water supply hose



Water drain hose



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- The water supply hose and drain hose (extension) can be purchased at your nearest service center.
- The water supply hose and drain hose are not provided for the built-in model but are provided separately at the time of installation.

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INSTALLING YOUR WASHING MACHINE

STEP 1
Selecting a location

Before you install the washing machine, make sure the location:

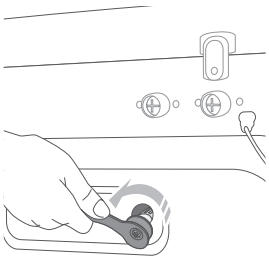
- has a hard, level surface without carpeting or flooring that may obstruct ventilation
- is away from direct sunlight
- has adequate ventilation
- is not exposed to freezing temperatures
- is away from heat sources such as oil or gas
- has enough space so that the washing machine doesn't stand on its power cord

STEP 2
Removing the shipping bolts

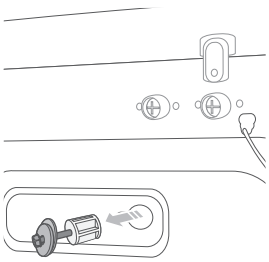
Before installing the washing machine, you must remove the six shipping bolts from the back of the unit.

CAUTION When moving the washing machine, please use the disassembled shipping bolts by screwing them in again. Moving the product without fastening the shipping bolts may damage the washing machine, resulting in a malfunction.

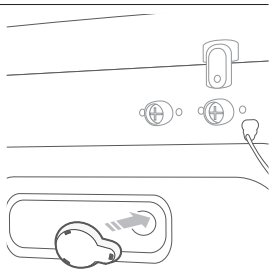
1. Loosen all the bolts with the supplied wrench.



2. Hold the bolt with the wrench and pull it through the wide section of the hole. Repeat the step for each bolt.



3. Insert the supplied plastic covers into each of the six holes.



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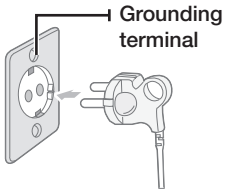
STEP 3

Grounding your washing machine

Your washing machine must be grounded. If your washing machine malfunctions or breaks down, grounding will reduce the risk of electric shock by providing a path of least resistance for the electric current.



If your outlet has a grounding terminal

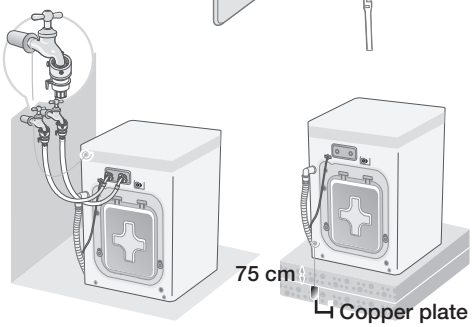
You don't need to ground separately.

If your outlet does not have a grounding terminal

Wind the ground wire (copper wire) 2-3 times around your water tap.

OR

If you connect the ground wire to a copper plate, please bury it 75cm underground where there is a lot of moisture.



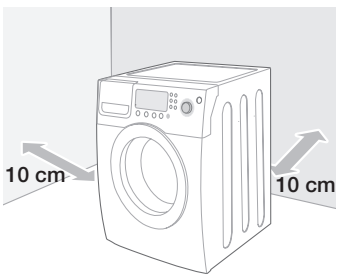
CAUTION Do NOT ground to a gas pipe, a plastic water pipe or telephone line. Connecting to these objects may cause electric shock or an explosion.

Purchase the ground wire from a Samsung Service Center and connect it to the back of the unit.

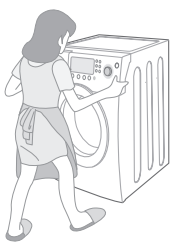
STEP 4

Leveling your washing machine

1. Place your washing machine a distance of more than 10 cm away from the wall.



2. Make sure your washing machine is level by adjusting the leveling feet:
   - Readjust the leveling feet if the washing machine moves when shaking it, or when pressing the left and right corners.
   - If the unit shakes, please readjust the leveling feet.



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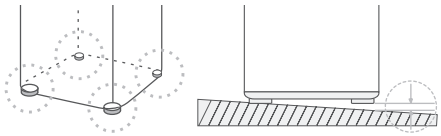
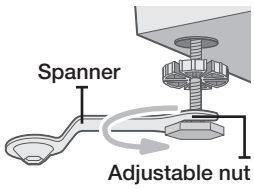
Adjusting the leveling feet

1. A horizontal level means that the washing machine does not shake or wobble when pressure is applied to any part of it.

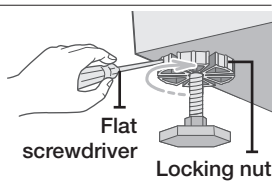


2. If the level is not horizontal:
- While lifting the washing machine slightly, adjust the four leveling feet so that all four feet touch the floor.
- If you turn the adjustable nut to the left as shown in the figure, the height of the leveling feet is increased.



3. Following adjustments, tighten the nut all the way to the right.

CAUTION If the nut is not completely fixed, the washing machine is likely to cause vibrations and noise.



STEP 5
Connecting the water and drain

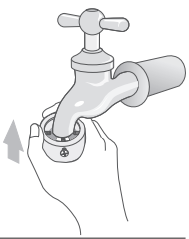
Connecting the water supply hose to the water tap

If the adaptor and the water tap have different sizes, please purchase a water tap that fits the adaptor from a hardware store.

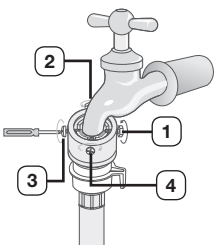
1. First loosen the four screws on the adaptor using a '+' type screwdriver.

2. Push the adaptor all the way to the top of the water tap.

Please refer to the label attached to the adaptor.



3. Tighten the 4 screws the same amount.
Place plastic nuts 1 and 2 inside, tighten them first by hand and tighten nuts 3 and 4 using a screw driver.



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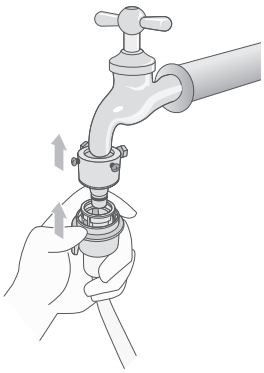
4. Connect the water supply hose to the adaptor. While pressing the release lever, insert the water supply hose into the adaptor. When you hear a 'click' sound, the connection is complete as soon as you release the release lever.

Please be careful not to switch the cold water and hot water supply hoses.



5. Turn on the water supply and ensure that there is no water leaking from the water valve, tap or adaptor. If there is a water leak, repeat the previous steps until there is no leak.

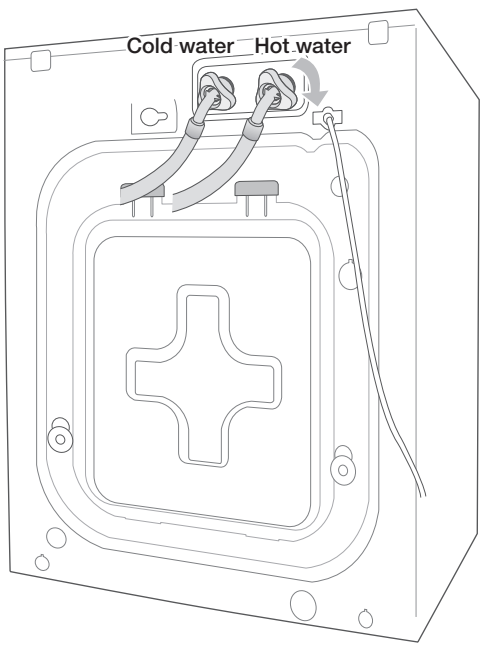
Do not use your washing machine if there is a water leak. This may result in electric shock or injury.

If there is a water leak after making the connections:

1. Re-assemble the water supply hose from the first step.
2. Please check whether the screw is skew.
3. Please check whether the adaptor is pushed all the way to the top of the water tap.

Connecting the water supply hose to the washing machine

1. Connect the other end of the water supply hose to the inlet water valve at the back of the washing machine. Screw the hose clockwise all the way in.
2. Open your water tap after the connection is completed and check whether there is a water leak.



CAUTION

- Do NOT connect with hot water only. Your laundry may be damaged.
- Do not to switch the cold water and hot water supply hoses.
- The drying function will not work and may result in a malfunction or error.

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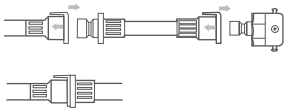
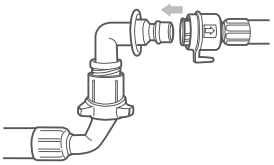
If you want to extend the water supply hose:
If your washing machine is some distance from your water tap, please follow the procedures below.

1. Purchase a water supply hose.
   – A water supply hose extension can be purchased at a Samsung Service Center.



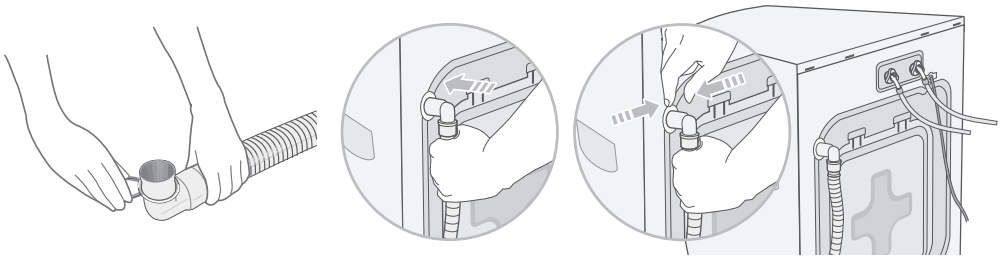
2. Use an extra hose.
   – If you are using cold water only, you can use the other hose by connecting it to a hose connecter to extend the hose.



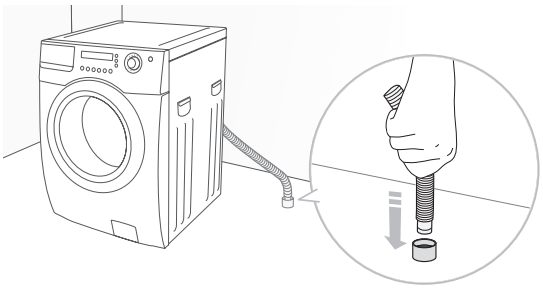
The water supply hose and hose connector can be purchased at a Samsung Service Center.

Connecting the drain hose

1. Press the joint ring grip of the drain hose and insert it into the required position.
   - Insert the drain hose tightly into the drain outlet, press the joint ring, and push it towards the main body firmly to fix it.



2. Please connect the drain hose firmly so that it cannot come loose from the drain outlet.
   - If the drain hose is not firmly fixed, bubbles or water may leak in the draining stage.



Caution! Drain hose installation

1. Please connect the drain hose firmly.
   - This may cause a leak around the connecting parts.
2. Please do not let the drain hose be pressed by a heavy object or become entangled.
   - This may result in a drainage problem.
3. If you plan to use an extended drain hose, please level it when installing it (no curvature).
   - Any unevenness may result in a drainage problem.
4. Ensure that the tip of the drain hose is not submerged.
   - This may result in a drainage problem.

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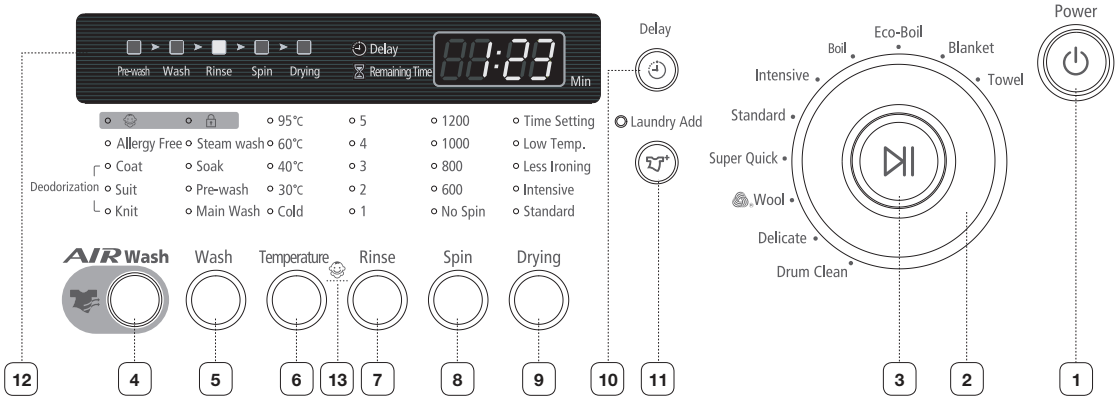
washing a load of laundry

USING THE CONTROL PANEL



1 **POWER BUTTON**	If you want to stop a cycle in progress, press the **Start/Pause** button and then press this button. Press it once to turn your washing machine on, and press it again to turn your washing machine off. If the washing machine is left on for more than 10 minutes without any buttons being pressed, the power will automatically turn off. The power will turn off automatically when the washing/drying process is completed.
2 **CYCLE SELECTOR**	Select the appropriate course using the **Cycle Selector**.
3 **START/PAUSE BUTTON**	Press this button to start and pause a cycle or change a wash course in progress. Press it once to start a cycle, and press it again to pause a cycle.
4 **AIR WASH BUTTON**	Press this button to refresh your laundry. Press this button repeatedly to cycle through the following options: Knit → Suit → Coat → Allergy Free → Cancel.
5 **WASH OPTION SELECTION BUTTON**	Press this button to select the wash cycle only or add the Pre-wash, Soak, or Steam Wash functions. Press this button repeatedly to cycle through the wash options: Main Wash → Pre-wash + Main Wash → Soak + Main Wash → Steam Wash + Main Wash → Main Wash. The wash time cannot be adjusted. The Steam Wash function is not available when the wash course is set to Wool or Delicate or the water temperature is set to Cold Water or 30 ˚C. The Pre-Wash and Soak functions are only available for the following wash courses: Standard, Intensive, Boil, Eco Boil, Blanket, Towel.
6 **TEMPERATURE SELECTION BUTTON**	Press this button repeatedly to cycle through the available water temperature options: 40 ˚C → 60 ˚C → Cold → 30 ˚C → 40 ˚C (based on the Standard course). The selection range for the temperature varies depending on the course. Do not use hot water only.
7 **RINSE SELECTION BUTTON**	Press this button to add additional rinse cycles. The maximum number of rinse cycles is five.

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8 **SPIN SELECTION BUTTON**	You can change the spin speed according to your needs. The spin speed can be changed according to the selected wash course. "No Spin" means no spin cycle is performed after the final drain.
9 **DRYING SELECTION BUTTON**	Press this button repeatedly to cycle through the following options: Standard → Intensive → Less Ironing → Low Temp. → Time Setting (30min → 1:00min → 1:30min → 2:00min → 2:30min).
10 **LAUNDRY ADD BUTTON**	Select this to add laundry while a wash cycle is in progress.
11 **DELAY BUTTON**	Press this button repeatedly to cycle through the available Delay options (maximum 24 hours in one hour increments). The hour displayed indicates the time when the wash cycle will be finished (e.g. 3:00 - the wash cycle will be finished in 3 hours). The Delay time may differ depending on the selected course.
12 **DELAY INDICATOR**	When the Delay function is activated, the Delay indicator will be illuminated. After the programmed cycle starts, it is turned off.
WASHING PROGRESS INDICATOR	Pressing the **Delay** button or the **Start/Pause** button after selecting a course will active this function and the remaining wash time will be displayed.
DOOR LOCK INDICATOR	When the Door Lock indicator is illuminated or blinking, opening the door is not possible. You can only open the door when the Door Lock indicator is off. When the washing machine is working, the door is automatically locked and the Door Lock indicator will be illuminated.
13 **CHILD LOCK INDICATOR**	The Child Lock function allows you to lock the buttons so that your child cannot activate the washing machine. If you want to activate or deactivate the Child Lock function, press the **Temperature** and **Rinse** buttons at the same time for 3 seconds.

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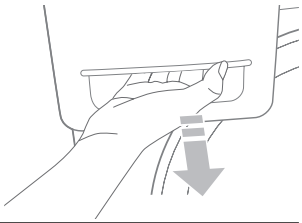
washing a load of laundry

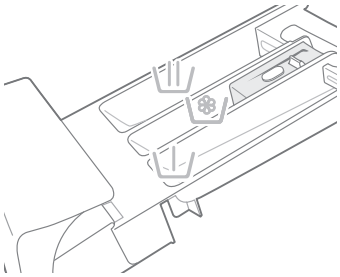
DETERGENT AND ADDITIVES INFORMATION

Detergent drawer

1. Pull out the detergent drawer as shown in the figure.



2. Add the recommended amount of laundry detergent directly into the detergent compartment before starting your washing machine.



CAUTION If powdered detergent is spread directly onto the laundry, it may cause discoloration.

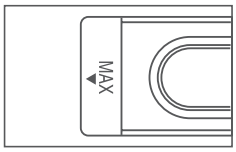
3. Add the recommended amount of fabric softener into the softener compartment as required.

The fabric softener is used during the rinse cycle and can prevent static electricity building up on your laundry and provides softness.

The fabric softener is automatically added during the last rinse cycle.

CAUTION Do not add fabric softener over the MAX line, as it may result in an overflow.

CAUTION Concentrated or thick fabric softener and conditioner must be diluted with a little water before being poured into the dispenser (prevents the overflow from becoming blocked.)



4. When using the Prewash option, add the recommended amount of laundry detergent into the prewash compartment .

When washing heavily soiled laundry, use the Prewash option. When using the Prewash option, use less than half a cup of detergent depending on the type.

CAUTION

CAUTION
- Please use the proper amount of detergent according to the type based on the reference index.
- Using too much detergent may result in the following problems which may cause a malfunction and shorten the lifespan of the unit.
  - Too many bubbles will extend the rinse time which hinders the normal rinse process.
  - Bubbles may overflow in the front where the detergent is placed and may cause leaking due to a rise in pressure.
  - Bubbles may not be completely eliminated after the last spin cycle.

CAUTION **If you open the detergent drawer while water is being supplied**
- The water may flow out.
- Detergent may not be added, or a rinsing agent may be added in the middle of the process.

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Types of detergent

Powdered synthetic detergent
Powdered detergent can be used for all types of garments, except for wool and silk, and is classified as either standard or concentrated detergent depending on the concentration ratio.

Liquid synthetic detergent
Liquid type detergent can be used for all types of garments, except for wool and silk, and it dissolves even in cold water.
Using high-viscosity detergent that is not dissolvable in water may decrease the effectiveness of the rinse function due to detergent remaining inside the drum after washing. Special attention is required.

Wool shampoo
A mild detergent that is used for wool or delicate garments (acrylic, polyester and nylon) and protects the surface of garments from damage. However, it has a low washability.

Fabric softeners
Fabric softener prevents static electricity from building up on garments and provides softness when used during the last rinse cycle. It is classified as either standard or concentrated detergent depending on the concentration ratio.

Chlorine-type bleach
This type of bleach is used for bleaching cotton garments. It bleaches well even at low temperatures. However; it should be used cautiously as it can cause discoloration of colored garments.

Oxygen-type bleach
This type of product is usually in the form of a powder. It can effect clear coloration if used moderately. However, excessive use may cause discoloration.

CAUTION If the liquid detergent or bleach being used is spilled on the door, it may cause corrosion of the coating. Therefore, special attention is required.

Recommended amounts of laundry detergent

Please use the measuring cup supplied with your detergent to measure the amount of detergent.

AMOUNT OF LAUNDRY	TYPE OF DETERGENT		
	Drum washing machine detergent	Concentrated detergent	Standard detergent
More than 7 kg	Approx. 80 g	Approx. 35 g	Approx. 40 g
7 kg ~ 5 kg	Approx. 70 g	Approx. 30 g	Approx. 35 g
5 kg ~ 3 kg	Approx. 35 g	Approx. 20 g	Approx. 25 g
Less than 3 kg	Approx. 20 g	Approx. 15 g	Approx. 20 g

- When using the Prewash option, use less than half a cup according to the type of detergent.
- When using detergent designed for Drum Washing machines only, please refer to the User Manual.
- When the drum is less than 1/2 full, the standard capacity is around 20ℓ and if the drum is more than 2/3 full, the standard capacity is less than 30ℓ.
- Use a dedicated detergent, as a regular detergent is likely to develop excessive bubbles.

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washing a load of laundry

LAUNDRY GUIDELINES

CAUTION The checkpoints below must be followed to avoid problems with your washing machine or damaging your laundry.
If one of the problems below is the fault of the customer, a separate service fee will be charged.

Types and weight of clothing

TYPE	WEIGHT(1 ITEM)	TYPE	WEIGHT(1 ITEM)
Towel	Approx. 50 g	Nightclothes, tops and bottoms 100% Cotton	Approx. 450 g
y-shirts 65% Polyester 35% Cotton	Approx. 200 g	Uniforms 65% Polyester 35% Cotton	Approx. 800 g
Winter shirts 65% Polyester Mixed	Approx. 220 g	Socks 100% Chemical Textile 100% Cotton	Approx. 50 g 1 pair
Underwear 100% Cotton	Approx. 130 g	Diapers 100% Cotton	Approx. 100 g

Caring for your laundry before washing

Remove personal belongings such as hairpins, coins and keys from pockets and turn clothes inside out before washing, as these may cause damage to your clothing and washing machine as well as result in noise and problems with your washing machine.

Perform a pre-wash for white socks, sleeves, and collars before the main wash.

- For stains and dirt on collars, sleeves, hems, and pockets, apply some detergent to them and apply it lightly with a brush before washing.
- Use powdered or liquid detergent. Do not use soap as the drum may become dirty.

Make sure to insert brassieres (water washable) into a laundry net (to be purchased additionally).

- The metal parts of the brassieres may break through the material and damage the laundry. Therefore make sure to place them inside a fine laundry net.
- Small, light clothing such as socks, gloves, stockings and handkerchiefs may become caught around the door. Place them inside a fine laundry net.

Do not wash waterproof clothing such as Ski Wear, Diaper Covers, Footboards etc.

- This may cause the laundry to be ejected or cause the washing machine to vibrate abnormally, which may result in personal injury or damage the washing machine, the floor or the clothing. (Diapers, waterproof clothing, raincoats, umbrella covers, skiwear, car cover sheets, and sleeping bags, etc.).
- When the drum rotates, water may become trapped in the waterproof clothing or fabric and can collect in a corner, causing abnormal vibrations. In addition, the laundry rises and may be ejected and cause personal injury.

Remove any metal on clothing, close zippers and hook and turn clothes inside out before washing.

- Metal on clothing may cause damage to the clothing and the drum.
- Turn clothing with buttons and embroidered clothes inside out before washing them.
- Clothing with long strings may become entangled with other clothes, and may cause damage to the clothing. Be sure to fix the strings before washing.

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Shake dirt and soil from clothing.

- Soil and sand may rub delicate garments and cause damage resulting in an unsatisfactory washing result.

Turn fluffy clothing inside out before washing them.

- If clothes have too much foreign matter, separate them for washing. Other clothes may pick up dirt from these items (dirt, thread).
- Wash black colored clothes and cotton towels separately. If they are washed together, towels may pick up dirt. Check before washing.

Non-washable laundry

Clothes that are easily transformable even by simply soaking in water.

- Even by soaking in water, neckties, brassieres, jackets, suits and coats can be easily transformed i.e. by shrinking or discoloration as they are mostly made of rayon, polynosic, and other blended fabrics.
- Wrinkle-processed, embossed, or resin processed products are easily transformed even by simply soaking in water.
- Easily discolored products made of cotton and wool, wrinkled silk, leather products, leather accessories, leather ornamented clothing and accessories.
- Do not wash these clothes without referring to the handling guidelines or care label.

Below is a list of laundry items that may not use the drying function.

- Starched garments
- Wool garments
- Products with sponge material: may be damaged.
- Leather products: may be distorted.
- Silk products: may be distorted.
- Products with the following marks:

Blankets marked as do not use Drying function

- Wool blankets longer than 100 cm.
- Wool blankets
- Electronic blankets

Lingerie marked as do not use Drying function

- Wool, silk, mixed lingerie
- Lingerie with lots of lace
- Slips, stockings, tights

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washing a load of laundry

Caution

- The water tap MUST be opened to use the dry function. The dry function will not work if the water supply is closed as it uses cold water for cooling and dehumidification. (Areas with low water pressure may not deliver a satisfying drying result.)
- Depending on the fabric, contractions and distortions may occur after drying.
- After the drying process is completed, metal objects attached to the laundry may be extremely hot. Please be careful, when unloading the laundry.

Helpful information when using the drying function

- If you choose to use the wash and dry function, load less than 6.0 kg (models with a 10 kg wash capacity) or 7.5 kg (models with a 12 kg wash capacity) laundry. (More than 6.0 kg or 7.5 kg laundry will not have good drying result.)
- The drying function is not available in the Wool, Delicate, Blanket and Drum Clean courses.
- For safety purpose, the door will not open immediately after the drying cycle is completed and the 'Hot' LED is displayed, when the **Start/Pause** button is pressed. Please wait until the 'Hot' LED and Door Lock indicator turn off.
- Do not open the door unless the drying process is fully completed, as this will result in a poor drying result.

BASIC INSTRUCTIONS

1. Open the door, place the laundry into the drum and close the door.

CAUTION Make sure that laundry is not caught in the door, as this may cause a water leak and damage the clothing and the washing machine.

2. Press the **Power** button to turn the washing machine on.
3. Select the appropriate course by using the **Cycle Selector**.

- When using the drying function, press the **Drying** button.
- When using the Delay function, press the **Delay** button.

4. Add the recommended amount of detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
5. Press the **Start/Pause** button.
6. After turning the washing drum when no water is supplied, the washing machine detects the weight of the laundry and adjusts the washing time automatically.
7. The power will go off automatically upon completion of the washing/drying process and the melody will sound.

USING THE CYCLE SELECTOR

Standard course

You can wash most normal fibers except for wool/silk/delicate clothing.

When washing towels with a high water absorption, make sure to wash less than three (3) kg at a time.

Use the **Towel** course when washing towels only.

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
   - You can also press the **Start/Pause** button to select the Standard course.
   - Select **Standard** using the **Cycle Selector**.
   - If you do not select the wash temperature, the wash will proceed at 40 °C.
   - The wash temperature can be selected up to 60 °C.
   - You can change the rinse count and the spin speed additionally according to your needs.

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If you want to add the Pre-wash, Soak, or Steam Wash function to your washing settings, press the Wash button additionally.

- Press this button repeatedly to cycle through the wash options: Main Wash " Pre-wash + Main Wash " Soak + Main Wash " Steam Wash + Main Wash " Main Wash.
- The Pre-wash, Soak, and Steam Wash functions are optional. (If the water temperature is set to Cold or 30 °C, the Steam Wash function cannot be selected.)

3. Add the recommended amount of detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
   - When using the Prewash option, add the recommended amount of laundry detergent into the prewash compartment .
4. Press the **Start/Pause** button.
   - After turning the washing drum when no water is supplied, the washing machine detects the weight of the laundry and adjusts the washing time automatically.

The Pre-wash function

Pre-wash is preliminary wash that is performed for 10 minutes before the main wash.
A pre-wash is effective for highly soiled laundry.

The Steam Wash function

Since the wash temperature and soak effect are increased by adding steam into the washing drum when starting the wash, the Steam wash function enhances the wash effect.

- After starting the washing machine using the **Start/Pause** button, you can change the temperature while the water is being supplied.
- Pre-wash is only available for the **Standard, Intensive, Boil, Eco Boil, Towel, Blanket** courses.
- For a small amount of laundry such as a pair of jeans, the spin time may be delayed or added.
- As cloth with a high water absorption may cause the laundry to unbalance, an operation to smooth the laundry down has been added.

CAUTION Make sure that the laundry is not caught in the door, as this may cause a water leak and damage the laundry or washing machine.

Boil course

This course is appropriate for sterilizing underwear or other items changed daily. The removal of stubborn stains and the sterilization process occur at the same time.
Washable laundry: cotton underwear, diapers, 100% cotton, clothes that do not become discolored, etc.

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Select **Boil** using the **Cycle Selector**.
   - The temperature is only selected as 95 °C.
   - If required, you can add the Pre-wash, Soak, or Steam Wash functions using the **Wash** button.
   - You can change the rinse count and spin speed additionally according to your needs.
   - The rinse count can be set from 2 to 5 times.
4. Add the recommended amount of detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
   - When using the Prewash option, add the recommended amount of laundry detergent into the prewash compartment .

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5. Press the **Start/Pause** button.
   - If your laundry is being washed using the **Boil** course, cold water is supplied just before the wash ends to lower the water temperature when draining.
   - If the temperature of the cold water is too low or the weight of your laundry is more than 7 kg, the actual water temperature may not reach the set temperature.

- If cold and hot water are supplied at the same time, your wash may be finished in a shorter time.
- Make sure to not use hot water only.

CAUTION
- Make sure to check whether the laundry is suitable for boiling (100% cotton, diapers, etc.), and wash white or light colored clothing separately from dark clothing that may be discolored.
- If you open the detergent drawer while washing in the Boil course, hot steam may be generated and fabric softener may be added during the wash. Make sure that the detergent drawer is not opened.

Eco Boil course

This is a hygienic and energy saving course for neat and prudent housekeepers and precious, special babies.
Washable laundry: 100% cotton, diapers, baby clothes, clothes that do not become discolored, etc.

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Select **Eco Boil** using the **Cycle Selector**.
   - If you do not select the wash temperature, the wash will proceed at 95 °C.
   - For the wash temperature, only 60 °C or 95 °C can be selected.
   - If required, you can add the Pre-wash, Soak, or Steam Wash functions using the Wash button.
   - You can also change the rinse count and spin speed according to your needs.
   - The rinse count can be set from 2 to 5 times.
4. Add the recommended amount of detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
   - When using the Prewash option, add the recommended amount of laundry detergent into the prewash compartment .
5. Press the **Start/Pause** button.
   - If your laundry is being washed using the **Eco Boil** course, cold water is supplied just before washing ends to lower the water temperature when draining.

- If the cold/hot water is supplied at the same time, your washing may be finished in a shorter time.
- Make sure to not use hot water only.
- After starting the washing machine using the **Start/Pause** button, you can change the temperature while the water is being supplied.

CAUTION
- Make sure to check whether the laundry can be boiled (100% cotton, diapers, etc.), and wash white or lightly colored clothing separately from dark clothing that may become discolored.
- If you open the detergent drawer during a wash in the **Eco Boil** course, hot steam may be generated and fabric softener may be added during the wash. Make sure that the detergent drawer is not opened.

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Super Quick course

This course is used for a small amount (less than 4 kg) of laundry, relatively clean laundry, or frequently used laundry in a short period of time.

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Select **Super Quick** using the **Cycle Selector**.
   - If you do not select the wash temperature, the wash proceeds at 40 °C.
   - The wash temperature can be selected up to 40 °C.
   - If required, you can add the Steam Wash function using the Wash button. (If Cold Water, or 30 °C is set, the Steam Wash function cannot be selected.)
   - You can also change the rinse count and spin speed according to your needs.
4. Add the recommended amount of detergent and softener into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
5. Press the **Start/Pause** button.

Towel course

This course is useful for washing towels.
Make sure that the total amount of laundry weighs less than 5 kg.

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Select **Towel** using the **Cycle Selector**.
   - If you do not select the wash temperature, the wash proceeds at 40 °C.
   - For the wash temperature, any temperature can be selected.
   - If required, you can add the Pre-wash, Soak, or Steam Wash function using the Wash button. (If Cold water, or 30 °C is set, the Steam Wash function cannot be selected.)
   - You can also change the rinse count and spin speed according to your needs.
   - When washing at 95 °C, the rinse count can be set from 2 to 5 times.
   - The spin speed can be selected up to 800 rpm.
4. Add the recommended amount of detergent and softener into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
5. Press the **Start/Pause** button.

Towel course

- We recommend that towels are washed alone to reduce damage due to friction with other laundry and to prevent fuzz from clinging to other laundry.
- We recommend that a weak spin cycle is used for this course to prevent the towel fibers from being lengthened, broken or damaged.
- Use a fabric softener to prevent the towel fibers from becoming stiff.

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Blanket course

This course is only used for bedding such as small blankets, bedding, counterpanes, tablecloths, curtains, etc. for which water washing is available.

1. Open the door, place the items into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Select **Blanket** using the **Cycle Selector**.
   - If you do not select a wash temperature, the wash proceeds at 30 °C.
   - The wash temperature can be selected up to 40 °C.
   - If required, you can add the Pre-wash, Soak, or Steam Wash function using the Wash button. (If 40 °C is set, the Steam Wash function can be selected.)
   - You can also change the rinse count and spin speed according to your needs.
   - For the spin speed, only 600 rpm, 800 rpm, or No Spin can be selected.
4. Add the recommended amount of detergent and softener into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
5. Press the **Start/Pause** button.

- The washable weight may differ depending on the volume of bed clothes.
- The drying function cannot be selected.
- Mink blankets, cotton bedclothes, wool bedclothes, etc. cannot be washed.

CAUTION

- Do not wash electric blankets and carpets. This may cause damage to the washing machine and the laundry.
- Make sure to wash only one piece of bedding regardless of its size. If you want to wash more than one piece of bedding, it may unbalance the washing machine.
- Do not wash water-proofed items.

Precaution

The following types of bedding that have the hand wash mark are washable with this washing machine.

Type

- Acrylic blankets: Acrylic 100% (Nylon coating)
- Blended blankets: Cotton and polyester
- Woolen blankets: Wool blend blankets
- Bedding stuffing: Polyester 100%, a size within about 200 cm x 300 cm

Weight

- Blankets: Less than 3.5 kg
- Bedding stuffing: About 3.5 kg (Total bedclothes weight: 5 kg)

Wool/Delicate course

This course is useful for delicate clothing, such as wool, that is easily changed or damaged.

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Select the appropriate course (**Wool/Delicate**) using the **Cycle Selector**.
   - If you do not select a wash temperature, the **Wool** course is set to 30 °C and the Delicate course is set to Cold Water.
   - The wash temperature can be selected up to 40 °C.
   - For the spin speed, only 600 rpm can be selected.
   - In the **Wool** course, the rinse count can be selected up to three (3) times, and in the **Delicate** course, up to five (5) times.
   - The Pre-wash, Soak, and Steam Wash functions do not operate.
4. Add the recommended amount of detergent and softener into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
5. Press the **Start/Pause** button.

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Wool course

- The proper weight of the **Wool** course is less than 4kg. Use a neutral detergent for wool only appropriate to the laundry. (It is recommended using the same amount used for a hand wash as described in the user manual regarding the detergent usage.
- To prevent shrinking, the Drying function cannot be selected.
- The **Wool** course includes an operation that shakes the laundry sideways (as when rocking a cradle) to prevent the laundry from being damaged.
  To preserve the wool fiber characteristics, the wash is proceeded with the washing machine gently shaking the laundry sideways.
  The **Wool** course can proceed up to one (1) revolution for a minimum of two (2) minutes to prevent the laundry from shrinking.

Delicate course

- Wash whites or light colored clothing separately from dark colored clothing.
- To prevent cloth from being damaged, the Drying function cannot be selected.
- The proper weight of the Delicate course is less than 4kg.

Intensive course

This course is useful to remove stubborn stains using the Soak function.

1. Open the door, place the laundry into the drum and close the door.
2. Press the Power button to turn the washing machine on.
3. Select Intensive using the **Cycle Selector**.
   - If you do not select a wash temperature, the wash proceeds at 40 °C.
   - For the wash temperature, only 40 °C or 60 °C can be selected.
   - If required, you can add a Pre-wash using the Wash button.
   - You can also change the rinse count and spin speed according to your needs.
   - If required, you can add both the Steam wash and Drying functions.
4. Add the recommended amount of detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
   - When using the Prewash option, add the recommended amount of laundry detergent into the prewash compartment .
5. Press the **Start/Pause** button.

After starting the washing machine using the **Start/Pause** button, you can change the temperature while the water is being supplied.

Drum Clean course

When using the machine in humid conditions over an extended period of time, various airborne bacteria may stick to the drum and form a layer of black dirt (fungi), causing harm to the human body.
To keep the drum clean and hygienic at all times, it is recommended using a dedicated or recommended detergent to clean the drum regularly at least once every one to three months.

When using powdered detergent

1. Press the **Power** button to turn the washing machine on.
2. Select Drum Clean using the **Cycle Selector**.
3. Add the recommended amount of powdered detergent into the detergent compartment .
   - Always use the recommended detergent.
4. Press the **Start/Pause** button.

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When using liquid detergent

1. Press the **Power** button to turn the washing machine on.
2. Select **Drum Clean** using the **Cycle Selector**.
3. Add the recommended amount of liquid detergent into the detergent compartment.
   - Dilute the liquid detergent at a ratio of about 1 to 300, considering the amount of water used by the washing machine.
4. Press the **Start/Pause** button.

CAUTION Never place laundry into the drum when cleaning inside the drum, as this can cause discoloration or damage to the laundry.

Recommended detergent

You can purchase the detergent in a department store or supermarket.

Powdered detergent/Liquid detergent (Oxygen)	Washing Machine Capacity	Water volume	Liquid detergent	Powdered detergent
Paper cup (Amount of a cup, about 150 mℓ)	10 ~ 13 kg	30 ℓ	90 mℓ	30 g
	8.0 kg	20 ℓ	60 mℓ	20 g
	6.0 kg	16 ℓ	50 mℓ	15 g

CAUTION
- If chloride bleach is used, it may discolor the product. Make sure to use oxygen bleach.
- Dilute liquid detergent at a ratio of about 1 to 300, considering the amount of water used by the washing machine
- Powdered detergent: Use powdered bleach or detergent for washing the drum only.
- Liquid detergent: Use oxygen liquid bleach or detergent for washing the drum only.

Performing from washing to drying all in one

Referring to the 'Dry capacity label' stuck on the right of the door, make sure to insert less than 6.0 kg (for models with a 10 kg washing capacity) or 7.5 kg (for models with a 12 kg washing capacity) of laundry (dry laundry).

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Select the appropriate cycle using the **Cycle Selector**.
   - The drying function is only available for the Standard, Boil, Eco Boil, Intensive, Towel, Super Quick courses.
4. Press the **Drying** button.
   - Pressing the button cycles through the following options: Standard → Intensive → Less Ironing → Low Temp. → Time Setting (30 min → 1:00 min → 1:30 min → 2:00 min → 2:30 min) → Cancel
   - The Standard, Intensive, Less Ironing and Low Temp. Drying options detect the weight of the laundry in order to display an accurate drying time and dry them more completely.
5. Add the recommended amount of detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
   - When using the Prewash option, add the recommended amount of laundry detergent into the prewash compartment.
6. Press the **Start/Pause** button.
   - The optimal process from washing to drying proceeds automatically.

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- After the Drying cycle has started, it cannot be changed.
- If the Drying function is selected, the spin speed is set to 1000 rpm to increase the drying effect.
- If you do not remove the laundry after the drying ends, the wrinkle prevention operation is performed for thirty (30) minutes while “End” is displayed.
  To remove the laundry: Press the **Start/Pause** or the **Power** button, and then remove the laundry.
- If you want to dry the laundry after a hand wash, select Spin and Dry together.
- The clothes may not be dried completely depending on type of clothing.

Performing drying only

Referring to the ‘Dry capacity label’ stuck on the right of the door, make sure to insert less than 6.0 kg (for models with a 10 kg washing capacity) or 7.5 kg (for models with a 12 kg washing capacity) laundry (dry laundry).

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Press the **Drying** button.
   - Pressing the button cycles through the following options: Standard → Intensive → Less Ironing → Low Temp. → Time Setting (30 min → 1:00 min → 1:30 min → 2:00 min → 2:30 min) → Cancel
   - “Standard” - Select this to dry laundry automatically by detecting the amount and weight of the laundry. Select this to dry cotton clothing such as cotton trousers, T-shirts, and cotton underwear.
   - “Intensive” - Select this to completely dry cotton clothing. (Thick clothes such as jeans, towels, sports clothes, etc.)
   - “Less Ironing” - Finishes the drying cycle in a moist state appropriate for Ironing.
   - “Low Temp.” - Dry clothing which may become deformed at high temperatures is dried at a low temperature. (Mixed fabrics and synthetic fibers such as polyesters and nylons.)
   - “Time Setting” - Dries the laundry for the specified period of time.
   - Avoid washing laundry that may not be dried as it may become deformed even at low temperatures.
   - The Standard, Intensive, Less Ironing and Low Temp. Dry options detect the weight of the laundry in order to display an accurate drying time and dry them more completely.
   - The drying conditions may differ depending on the type and the amount of laundry.
4. Press the **Start/Pause** button.

- After the Drying cycle has started, the course cannot be changed.
- The Drying function cannot be selected
- If you do not remove the laundry after the drying ends, the wrinkle prevention operation is performed for thirty (30) minutes while “End” is displayed.
  To remove the laundry: Press the **Start/Pause** or the **Power** button, and then remove the laundry.
- If you want to dry the laundry after a hand wash, select Spin and Dry together.

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Delay

You can set the washing machine to finish your wash automatically at a later time.

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Select the appropriate cycle using the **Cycle Selector**.
4. Press the **Delay** button.
   - Press this button repeatedly to cycle through the available Delay options (max 24 hours in one hour increments).
   - The Delay time may differ depending on the selected course.
5. Press the **Start/Pause** button.
   - When the Delay function is activated, the Delay indicator will be illuminated. After the programmed cycle starts, it is turned off.
   - The hour displayed indicates the time when the wash cycle will be finished (e.g. 3:00 - the wash cycle will be finished in 3 hours).
6. To cancel a Delay function, press the **Power** button and then turn the washing machine on again.

- If the electricity fails, the Delay function will not work any more.
- The estimated Delay time may differ from the actual time depending on the water supply conditions and the temperature.
- If you want to check which cycles are programmed for the Delay function, press the Delay button while the Delay function is activated and a delayed wash is running.
- Please note that if you set the Delay time using the **Delay** button and then select the appropriate cycle using the **Cycle Selector**, the Delay function will be canceled.

Performing one cycle only from among washing/rinsing/spinning

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Perform the appropriate cycle as following:

Wash only

- Press the **Wash** button to select the Pre-wash and Main wash options.
  - Press this button repeatedly to cycle through the wash options: Main Wash → Pre-wash + Main Wash → Soak + Main Wash → Steam Wash + Main Wash → Main Wash.
  - The wash temperature can be selected up to 60 °C.
  - After selecting the appropriate course, press the **Wash** button for 2 seconds or deselect the **Rinse** and **Spin** buttons, and only the wash cycle will be selected.

Rinse only

- Press the **Rinse** button to select the rinse count.
  - You can change the rinse count before the last rinse cycle starts.
  - After selecting the appropriate course, press the **Rinse** button for a while or deselect the **Wash** and **Spin** buttons, and only the rinse cycle will be selected.

Spin only

- Press the **Spin** button to select the prefer spin speed.
  - You can change the spin speed before the spin cycle starts.
  - After selecting the appropriate course, press the **Spin** button for a while or deselect the **Wash** and **Rinse** button, and only the rinse cycle will be selected.

4. Add the recommended amount of detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
   - When using the Prewash option, add the recommended amount of laundry detergent into the prewash compartment .
   - When using the spin cycle only, skip this step.

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5. Press the **Start/Pause** button.

- For a small amount of laundry such as a pair of jeans, the spin time may be delayed or added.
- If you select the Wash and Rinse cycles only, the water remains in the drum when selected cycles are completed. To drain the remaining water, perform the Spin cycle.

Performing washing and rinsing only

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Press the **Wash** and **Rinse** buttons.
   - You can change the rinse count.
   - After selecting the appropriate course, press the **Wash** or **Rinse** button for a second or deselect the **Spin** button, and only the wash and rinse cycles will be selected.
   - You can add the Prewash option as required.
4. Add the recommended amount of detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
   - Add the recommended amount of detergent into the detergent compartment and fabric softener into the softener compartment no higher than the MAX line.
5. Press the **Start/Pause** button.

- If you want to rinse your laundry further, you can add more rinse cycles (max 5 cycles) using the **Rinse** button.
- Water may remain in the drum when the rinse cycle is completed. To drain the remaining water, perform the Spin cycle.

Performing rinsing and spinning only

1. Open the door, place the laundry into the drum and close the door.
2. Press the **Power** button to turn the washing machine on.
3. Press the **Rinse** and **Spin** button to select the rinse count and spin speed.
   - After selecting the appropriate course, press the **Rinse** or **Spin** button for a while or deselect the **Wash** button, and only the wash and rinse cycles will be selected.
4. Press the **Start/Pause** button.

- The maximum number of rinse cycles is five.
- For a small amount of laundry such as a pair of jeans, the spin time may be delayed or added.

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washing a load of laundry

Laundry Add

When the washing machine is running, the door is locked, and the Laundry Add lamp is off, you will not be able to add laundry. You can only add laundry when the Laundry Add lamp is illuminated.

1. Press the **Laundry Add** button.
   The washing machine will pause automatically.
2. Wait about 30 seconds and check the state of the Laundry Add lamp.
   - **Blinking**: The water in the washing machine has been drained to the safety level so that additional laundry can be added.
   - **Off**: Adding laundry is possible.
3. Add the laundry.
4. Press the **Start/Pause** button.

- Avoid adding laundry when the machine has foamed up or is filled with water. Otherwise, the foam or water may leak from the door. Check before opening the door.
- We recommend selecting the Laundry Add function 5 minutes before a cycle is performed.
- If the internal temperature is higher than 55 ˚C during a wash cycle or 70 ˚C during the drying cycle, the Laundry Add function cannot be selected.
- The Laundry Add function cannot be selected when the Child Lock function is activated.

CAUTION
- Do not open the door by force as it may result in injury or damage the washer.
- Always make sure that the laundry is not caught in the door, as this may cause a water leak and damage the laundry or washing machine.

Air wash

Air wash can refresh laundry without using water owing to its powerful air system. Clothing that can be refreshed includes woolen coats, cotton or down jumpers, sweaters and suits (Two items or less (less then 1 kg)).

1. Open the door, place the laundry into the washer and close the door.
2. Press the **Power** button.
3. Press the **Air wash** button to select the Air Wash options.
   - Press the button repeatedly to cycle through the following options: Knit, Suit, Coat, Allergy Free.
   - When one of these options has been selected, no other button can be selected and you can only select a maximum Delay time of 24 hours.
4. Close the door and press the **Start/Pause** button.

- **Allergy Free**: Select this option to sterilize your laundry, for example against ticks. Since the temperature rises above 90 ˚C, clothes susceptible to heat may be deformed or damaged.
- Press the **Start/Pause** or **Power** button to remove the laundry.
- If you do not remove your laundry after the Air Wash is complete, the Wrinkle Free function will automatically be performed for 30 minutes.

CAUTION Avoid Air Washing the following clothes:
- Sensitive clothing made of leather, mink, fur, silk, etc.
- Underwear trimmed with lace, ‘glued’ doll cushions, and suits may have their decorations loosened.
- Clothes trimmed with buttons can be damaged.
- Starchy clothing can become deformed.

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CAUTION Avoid using the following clothing for the **Allergy Free** program:

- Hard bedding such as wooden pillows (neck-rests)
  - Pillows or blankets filled with plastic or starch rather than cotton
  - Electric blankets
- Furry blankets
- Bulky blankets
- Pillows or blankets filled with sponge or expanded polystyrene may catch fire or damage the washing machine

Child lock

The Child Lock function allows you to lock the buttons so that the wash cycle you've chosen can't be changed.

Activating/Deactivating

If you want to activate or deactivate the Child Lock function, press the **Temperature** and **Rinse** buttons at the same time for 3 seconds. The "Child Lock" indicator will illuminate when this feature is activated.

When the Child Lock function is activated, only the **Power** button works. The Child Lock function remains on even after the power is turned on and off or after disconnecting and reconnecting the power cord.

Door Lock

PROBLEM	SOLUTION
When the drum is spinning	Wait until the spinning has stopped.
When the internal temperature is too high	Wait until the 'HOT' LED turns off as a fan will automatically operate.
When water remains in the drum after the water is supplied	If the 'Laundry Add' lamp is illuminated, press the Laundry Add button. (After draining, the door will open.)
When the water temperature is too high in the drum	Press the **Power** button to turn on the washing machine again, press the **Spin** button to select the No Spin option and then press the **Start/Pause** to drain the water.

CAUTION
- Do not open the door by force as this may result in injury or damage to the washer.
- Make sure that laundry is not caught in the door, as this may cause a water leak and damage to the clothes and the washing machine.

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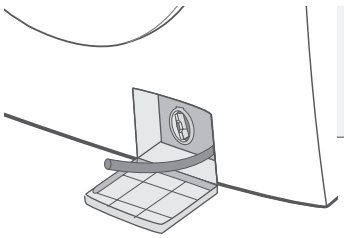
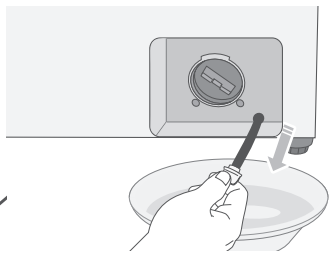
cleaning and maintaining your washing machine

Keeping your washing machine clean improves its performance, wards off unnecessary repairs, and lengthens its life.

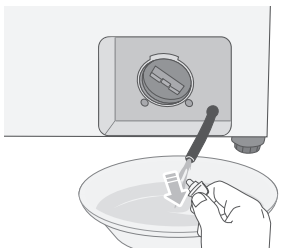
CLEANING THE DEBRIS FILTER



1. Open the front door.

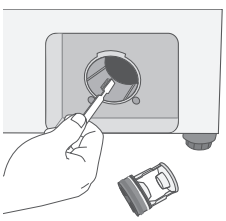


2. Pull out the hose to remove the remaining water.

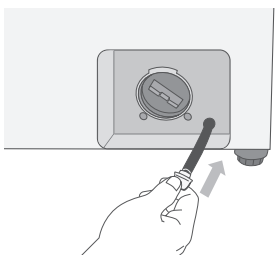


3. Remove the stopper at the end of the hose and let the remaining water flow out.

4. Turn the debris filter to the left.



5. Clean the debris filter and the inside of the drain hose.



6. Insert the debris filter after cleaning, insert the stopper into the end of the hose to remove the remaining water, insert the hose into the groove, and then close the front door.

- If you open the drain filter when water remains inside the drum, water may overflow to the front.
- If the drain filter is assembled incorrectly or is not installed, it may cause a water leakage or operating error.
  Therefore make sure to assemble it correctly.

CLEANING THE EXTERIOR

1. Wipe the washing machine surfaces, including the control panel, with a soft cloth using a nonabrasive household detergent.
2. Use a soft cloth to dry the surfaces.
3. Do not pour water onto the washing machine.

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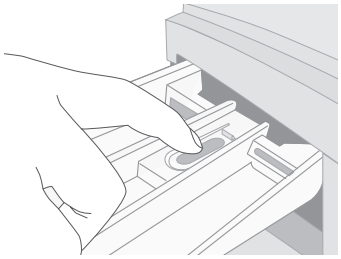
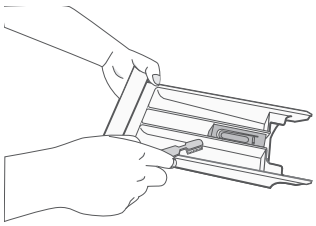
CLEANING THE DETERGENT DRAWER AND DRAWER RECESS

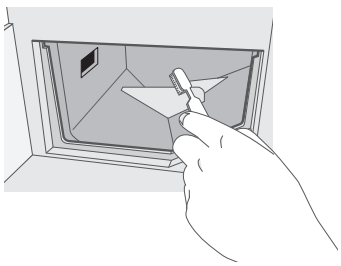
1. Press the release lever on the inside of the detergent drawer and pull the drawer out.
2. Remove the liquid detergent divider from the detergent drawer.



3. Wash all parts under running water.



4. Clean the drawer recess with an old toothbrush.
5. Replace the liquid detergent divider by pushing it firmly into the drawer.
6. Push the drawer back into place.
7. To remove any remaining detergent, perform a rinse cycle without any laundry in the drum.



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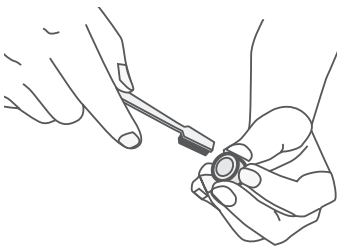
cleaning and maintaining your washing machine

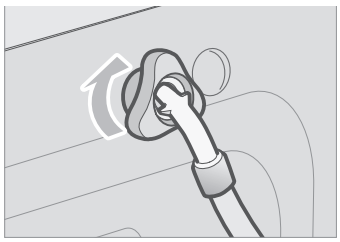
CLEANING THE WATER HOSE MESH FILTER

1. Pull out the filter net.

2. Wash the filter net with water.



3. Insert the filter net and fasten its connector firmly.



CAUTION If the filter net is not installed, it may cause a water leakage and an operating error. Make sure to install it.

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troubleshooting and information codes

CHECK THESE POINTS IF YOUR WASHING MACHINE

PROBLEM	CHECK	SOLUTION
Has no power.	Is the power ON?	Press the **Power** button.
	Is the power plug plugged onto the socket?	Insert the power plug.
	Is the leakage breaker OFF?	Turn the leakage breaker ON.
Does Not Work	Is the power 110?	The unit is for 220 only.
	Is the door open or the power off?	Press the **Power** button of the unit. Close the door and press the **Start/ Pause** button.
	Is the water being collected?	Please wait until the water is filled to the set height.
	Is the faucet closed?	Open the faucet to supply water.
	Are you using an extended cord (multi-tap)?	Do not use this type of cord as it may cause a fire due to the weak supply of power.
Stopped running and starts supplying water.	Some laundry items absorb more water than other items depending on their textile characteristics. Therefore, the purpose of this function is to supplement the water supply accordingly. When a bubble-prone detergent is used more than the recommended amount, the unit activates the water supplying function after draining water in order to remove the bubbles.	
Has water flowing out of the detergent drawer.	Is too much detergent being used?	Using too much detergent will inflate the internal volume due to bubbles and will cause the water within to overflow. Please use the proper amount of detergent as indicated in the reference table. (Page 17)
	Is the water extremely hot?	Using hot water of more than 50 °C temperature may generate bubbles and result in overflowing.
	Is the detergent drawer dirty or open?	Close the detergent drawer after cleaning it. Do not open the detergent drawer while supplying water.
Distorts fabrics in the boiling and drying courses.	Check the washing instruction of the garment to see whether it is machine washable or whether the garment is likely to be deformed when machine washing.	For proper washing, sort garments according to the garment handling instructions.

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troubleshooting and information codes

Has completed Drying but the laundry is not dry.	Is the water faucet closed?	Open the cold water faucet and proceed with drying.
	Did you select the iron option from the Drying cycle or short course?	Select a different course or extend the drying time.
Has detergent remaining in the detergent drawer after the wash program is complete	Make sure the washing machine is running with sufficient water pressure.	Without sufficient water pressure, detergent may remain. Add the recommended amount of detergent into the detergent drawer.
Is seriously vibrating.	Is the unit frozen?	Unfreeze the the unit using 10ℓ water at 60 °C.
Distorts fabric.	Check the washing instruction of a garment whether it is likely to be deformed when washing it in hot water. Sort the garments according to the garment instructions for proper washing.	Sort garments according to the garment handling instructions for proper washing.
Rotates the laundry tray in the 'End' condition and makes a door locking sound, when drying is completed.	The Wrinkle Free function is working. Please unload the laundry when the operation is completed or press the **Start/Pause** button or the **Power** button to unload the laundry.	
Is changing the remaining time.	It is time for adjusting the unit to obtain a better washing result by leveling and eliminating bubbles when an unusual operation is detected during the washing process (unbalanced laundry and bubbles). This is not malfunction. - As the water supply may be delayed or may affect the temperature, the time required for washing and drying may vary depending on the water temperature, water pressure and ambient temperature (seasonal).	
Freezes during winter.	**1.** Soak a dry towel in hot water and wrap it around the faucet. Do this 5 times every 10 minutes. **2.** Dismantle the water hose from the faucet. **3.** Immerse the water hose in hot water and defrost the ice inside the hose. **4.** Pour about 10ℓ of hot water at a temperature of 60 °C into the laundry tray and leave it for about one hour to defrost the ice inside the unit. **5.** Connect the water hose to the faucet. If the remaining water inside the washing machine, the drain hose and the water supply hose is not removed, it may result in a product malfunction. Please refer to the User Manual for the proper cleaning method.	
Is not supplying water.	Check if the filter net in the water supply hose connector is clogged with dirt. Clean the water supply hose connector (see page 34).	
Has an unusual odor during the drying process.	Lint from the laundry may have adhered to the heater during the initial operation.	
Has a strange odor when used for the first time.	The odor is caused by the rubber attached on the door. It is a distinctive rubber odor and will disappear after several uses.	

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Has water flowing out of the drain hose while washing and rinsing.	A little water may flow out of the drain hose while washing and rinsing. However, it does not affect the washing and rinsing performances.	
Trembles while spinning and is noisy.	Is the unit shaking or wobbling when you shake it?	Change the location of the washing machine or the laundry tray.
	Is the unit installed on a wooden or rubber base?	The unit is likely to shake while spinning if it is installed on a rubber base.
	Are the laundry tray and the unit properly connected?	Connect the connecting pieces of the laundry tray and the unit. Call a service center for help if needed.
Is too noisy while spinning.	The motor is turning at full speed for the strong spin cycle.	
	Is laundry outside of the rotating drum?	Put the laundry back inside the drum. Pants and long-sleeve shirts should be folded in half before starting the spinning process.
	Are wires, coins or buttons inside the drum?	Remove all buttons, coins and wires from the drum. Please check the pockets of all garments before washing.
Has laundry that is damp even after spinning and it seems that spinning was not properly completed.	The spin cycle may cause noise and serious vibrations if anything effects the rotation. Therefore, the unit may decrease the number of spin cycles.	
	Too little laundry may lump the laundry to one side, causing noise and vibrations. Please add more laundry for the spin cycle.	
Is shaking while spinning, stops momentarily and starts spinning again.	If the rotation is affected during the spin cycle, it may result in noise and vibrations. Therefore, the unit adjusts automatically to reduce any eccentricity. Please sort the laundry by type for the spin cycle.	
Is changing the time frequently while spinning.	If the rotation is affected during the spin cycle, it may result in noise and vibrations. Therefore, to reduce any spin eccentricities the unit adjusts the time automatically. The spin time may be delayed by up to 30 minutes. Please sort the laundry by type for the spin cycle.	
Has water flowing out while spinning.	The water flows out to remove any remaining on detergent bubbles the front glass.	

If the problem persists, contact your local Samsung Customer Service.

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troubleshooting and information codes

INFORMATION CODES

When your washing machine malfunctions, you may see an information code on the display. If that happens, check this table and try the suggested solution before calling Customer Service.

CODE SYMBOL	Self-diagnosis countermeasures
door	The door is open. - Please close the door as the unit will not function correctly when the door is left open.
UE	The spinning cycle does not work. - Make sure the laundry load is balanced. - Spread out the laundry evenly and start again. - Add more laundry to balance the laundry load for the spin cycle when adding high absorbing laundry such as dolls (1~2), jeans and shower towels.
4E	No water supply - Check whether the faucet is closed, the water supply has been suspended or is frozen. - Check whether the filter net in the water supply hose connector is clogged by dirt. - Check whether the cold water is connected. The display will show 4E when the cold water is connected. - Press the Start/Pause button and start again.
5E	The water does not drain due to a clogged drain hose. - Check whether the drain hose is frozen. - Press the Start/Pause button and start again. - Clean the filter of debris.
CE	**<In the washing stage>** The water does not drain as the internal temperature does not decrease to below 55 °C even after 55 minutes have elapsed. - Please check whether the cold/hot water supply hoses have been switched. - Press the Start/Pause button and start again. **<In the drying stage>** The internal temperature does not decrease to below 60 °C even after 1 hour has elapsed since the completion of the drying process. - Press the Start/Pause button and start again.
Hot	This is displayed when the inside of the drum is very hot. - Please wait until the 'HOT' sign turns off as a fan will automatically operate. - Buttons other than the Start/Pause and Power buttons will not work unless the 'HOT' sign turns off.
dE2	This sign is displayed when the power button including the Start/Pause button is pressed repeatedly, often due to children playing with the machine. For safety reasons, dE2 is displayed and all functions are stopped. - The unit can be turned back on 2-3 minutes later.
3E...	This could be a sign of a breakdown. Please turn off the power, unplug it, and contact a Samsung Electronics' Service Center for assistance.

For any codes not listed above, or if the suggested solution doesn't fix the problem, call your Samsung Service Centre or local Samsung dealer.

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appendix

FABRIC CARE CHART

The following symbols provide garment care directions. The care labels include four symbols in this order: washing, bleaching, drying and ironing, and dry cleaning when necessary.
The use of symbols ensures consistency among garment manufacturers of domestic and imported items. Follow the care label directions to maximize garment life and reduce laundering problems.

CAUTION Failing to follow the wash temperature may cause discoloration and bleaching.

	Resistant material		Can be ironed at 100 ˚C max
	Delicate fabric		Do not iron
	Item may be washed at 95 ˚C		Can be dry cleaned using any solvent
	Item may be washed at 60 ˚C		Dry clean with perchloride, lighter fuel, pure alcohol or R113 only
	Item may be washed at 40 ˚C		Dry clean with aviation fuel, pure alcohol or R113 only
	Item may be washed at 30 ˚C		Do not dry clean
	Item may be hand washed		Dry flat
	Dry clean only		Can be hung to dry
	Can be bleached in cold water		Dry on clothes hanger
	Do not bleach		Tumble dry, normal heat
	Can be ironed at 200 ˚C max		Tumble dry, reduced heat
	Can be ironed at 150 ˚C max		Do not tumble dry

DISPOSING OF ELECTRONIC EQUIPMENT

Dispose of your old electronic equipment in the following way in order to protect the environment and to promote recycling.

Free of Charge Service

If a new unit is purchased from an agency of Samsung Electronics., we will pick up the old unit on request of the customer, free of charge.

Paid Service

If you have not purchased a new product you can still dispose of your old electronic equipment by contacting your regional district office.

SAMSUNG ELECTRONICS' GREEN MANAGEMENT

Samsung Electronics declared its [Green Management] policy from May 1996 following the announcement of 'environmental measures' for the continued improvements and prevention of Environmental Pollution Losses through the establishment of an environment management system in June 1992.
Samsung Electronics' Green Management signifies the company's active participation in global environment conservation by actively promoting the environment, and safety and health issues as the core factors of the company's administration.

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appendix

SPECIFICATIONS

MODEL	* The wash capacity in the table is based on dry laundry.		
TYPE	FRONT LOADING DRUM WASHING MACHINE	WASH CAPACITY	12 kg
POWER SUPPLY	Single-phase alternating current 220V/60Hz	SPIN CAPACITY	12 kg
WASH METHOD	Drum	WATER VOLUME	110
SPINNING METHOD	Centrifugal spinning type	SPIN REVOLUTIONS	47 rpm
WATER PRESSURE	0.05 ~ 0.78 Mpa (0.5 ~ 8 kgf/cm^2)	DRY CAPACITY	7.5 kg
DIMENSIONS	W650mm X D785mm X H940mm		
NET WEIGHT	Washing model	85 kg / 92 kg	
	Model included dryer	88 kg / 95 kg	
POWER CONSUMPTION	WASHING	150 W	
	WASH AND HEATING	2200 W	
	DRYING	2100 W	

The appearance and specifications of the product are subject to change without prior notice for purposes of product enhancement.

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note

note

WARRANTY

The warranty period for the overall quality is one year.
The warranty period for the core parts (Washing Motor) is (3 years).
The part retention period is 5 years.

About our Service

We, Samsung Electronics, perform the following service repairs according to the Consumer Damage Compensation Regulations (Fair Trade Commission, Notice #2008-3).
Upon a customer request, Samsung Electronics or a certified partner will carry out the service repairs. Replying to a customer request will be made within 7 days, and compensation will occur within 14 days of the reply.

Product Name	Washing Machine	Model Name	
Date of Purchase		Serial No.	
Point of Purchase		Price (selling)	

Free-of-Charge Service

※ If a domestic purpose product is used for business purposes, the warranty period is halved.

▪ Type of Damage	Within the warranty period	After the warranty period
A malfunction occurred within the parts retaining period under normal usage conditions		
▪ Important repairs required within 10 days of the date of purchase	Replacement or refund	N/A
▪ Important repairs required within one month of the date of purchase	Replacement or free-of-charge repair	N/A
▪ Damage occurred during transportation or installation	Replacement	N/A
▪ Once replaced, an important repair is required within one month of the date of purchase	Refund	N/A
▪ Up to 3 malfunctions due to the same defect	Free-of-charge repair	Chargeable service
▪ Up to 4 malfunctions due to the same defect	Replacement or refund	Chargeable service
▪ Up to 5 malfunctions due to different defects	Replacement or refund	Chargeable service
▪ If the service provider has lost the product brought in by the customer for repairs	Replacement or refund	Refund with the equivalent of the depreciated sum plus 10 percent addition
▪ If the service provider does not retain the necessary part for the repair within the retaining period	Replacement or refund	Refund with the equivalent of the depreciated sum plus 10 percent addition
▪ If the necessary part is retained, but a repair is not possible	Replacement or refund	Refund with the equivalent of the depreciated sum
Customer-caused malfunction by accident or intentionally		
▪ Service not available	Replacement after a charge of service fee	Replace with the equivalent of the depreciated amount, after subtracting the service fee
▪ Service available	Chargeable service	Chargeable service

※ We charge a service fee for service requests for reasons other than malfunctions. Therefore, please read the User Guide carefully.
※ This warranty only applies to the Republic of Korea and will not be issued again. Therefore, store it in a safe location for later use.

Chargeable Service

Other than for a malfunction

(Cleaning, fine-tuning, usage guidance, installation, etc)

- Usage guidance / simple tuning with no disassembly
- If a reinstallation is necessary because of a careless installation by the retailer at the point of purchase
- Cleaning / washing to remove dust from the inside of the product
- Relocation of the product due to a house transfer etc.
- The customer changes his / her mind and asks for a reinstallation.
- The customer request to add the third party parts inside the product

Customer-caused malfunctions

- Malfunctions caused by a customer mishandling or improperly repairing the product
- Malfunctions caused by non-conformance to the product's power specifications
- Malfunctions or damage caused by an external impact or fall
- Malfunctions caused by the use of consumables or options not certified by the company
- Malfunctions caused by service persons other than from Samsung Electronics or its certified partners
- Malfunctions caused by noncompliance with the User Guide, especially the "Safety Instructions".

Other

- Natural disasters (lightning, fire, flood, damage from sea water, freezing, etc)
- If a consumable part expires (filters etc)

SAMSUNG ELECTRONICS CO.,LTD.
http://www.sec.co.kr

This user manual shall be read carefully before using the WASHING MACHINE for a better use.
This manual shall be re-purchased if lost. Cautious handling is required.

- This product is designed to be used in Korea. The unit is not required to be used in other countries with different power and voltage to Korea.
- The water coming out from the drain hose during installation of the WASHING MACHINE for the first time is the water remained in the unit from testing its function at the plant. .
- The appearance and specifications of the product can be changed without prior notice for product improvements.
- The picture in the manual may not be identical to the unit you purchased as the manual is used in common.

Main telephone number for the service centers nationwide

1588-3366

Cyber service center homepage

www.samsungsvc.co.kr

We strive to provide fast and effective customer service to our customers.
Please leave the name of model you purchased, the status of malfunction and your contact number. Samsung is operating a real-time cyber service center and a customized service for their convenience. You can request a service to be scheduled at your convenient time through the cyber service center.

SAMSUNG ELECTRONICS CO.,LTD.
Manufacturer: Samsung Gwangju Electronics
Maker Country: The Republic of Korea

Customer Service
02-541-3000 / 080-022-3000
Internet Homepage: www.sec.co.kr / www.hauzen.com
Internet Shopping Mall: www.gosamsung.co.kr

About Excellent Service Quality (ESQ)
A system recognized by Ministry of Knowledge Economy for a company providing precise and rapid measures on complaints, damage and opinions of customers.

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